

*Abstract of the Disclosure*

A television line doubler (interlaced to progressive scan converter) incorporating the following aspects — an improved field motion detector which does not treat low frequency vertical transitions as motion; a frame motion detector having an improved ability to differentiate motion from subcarrier signal components; a sawtooth artifact detector; a sawtooth artifact detector in combination with a film pattern detector, such that the artifact detector can take the film pattern detector out of film mode earlier than it would if it only were responsive to a break in the film pattern; tandem field motion detectors; an improved field based film detector; film pattern detectors and motion detectors used therewith which operate by performing end-of-field calculations; the combination of a field motion detector and a frame motion detector such that the frame motion detector provides a motion signal used as a verification by the field motion detector; an improved NTSC film detector requiring a minimum number of NTSC film pattern sequences; and an improved PAL film detector employing a minimum motion threshold detector.